

ABSTRACT OF THE DISCLOSURE

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The magnetic bearing control device (1) has a motor drive
circuit (13) provided with an inverter (13a) for driving the
motor (4) capable of generating an electric power, the inverter
5 being controlled by an inverter control circuit (14), and an
over-speed detection circuit (17) for detecting the number of
revolutions of the rotor (3) that is being rotated by the motor
(4), the rotor being supported in non-contact manner by a
magnetic bearing (5). When the over-speed detection circuit
10 (17) detects that the rotor (3) is being rotated at a preset
number of revolutions or more, the motor drive circuit (13)
performs a switching operation of a switch portion 13c provided
in the motor drive circuit (13) to separate the inverter (13a)
from the motor (4) and connect the motor (4) to a regenerative
15 circuit (13b), whereby the magnetic bearing (5) is driven and
controlled, employing a regenerative electric power of the motor
(4).